

VINOGRADOV, V. S.

"On Boundary Problems for Linear and Quasi-Linear Systems of First Order and Elliptic Type in the Plane."

paper submitted at International Congress Mathematicians, Edinburgh, 14 - 21 Aug 58.

20-118-6-2/43

AUTHOR: Vinogradov, V.S.

TITLE: On a Boundary Value Problem for Linear Elliptic Systems of Differential Equations of First Order in the Plane (Ob odnoy krayevoy zadache dlya lineynykh ellipticheskikh sistem differentsial'nykh uravneniy pervogo poryadka na ploskosti)

PERIODICAL: Doklady Akademii Nauk, 1958, Vol 118, Nr 6, pp 1059-1062 (USSR)

ABSTRACT: For the system

$$\begin{aligned} a_{11} \frac{\partial u}{\partial x} + a_{12} \frac{\partial u}{\partial y} + b_{11} v_x + b_{12} v_y + c_{11} u + c_{12} v &= f_1 \\ a_{21} \frac{\partial u}{\partial x} + a_{22} \frac{\partial u}{\partial y} + b_{21} v_x + b_{22} v_y + c_{21} u + c_{22} v &= f_2 \end{aligned}$$

the boundary value problem

$$\alpha(t)u(t) + \beta(t)v(t) \Big|_{\Gamma} = 0$$

has to be solved. Here it is assumed that $a_{ij}(x,y)$, $b_{ij}(x,y)$ are bounded measurable functions which in a finite simply connected domain D with the boundary Γ satisfy the condition of the uniform ellipticity; $c_{ij}(x,y), f_i(x,y) \in L_p(D)$, $p > 2$; $\alpha(t) \in \text{Lip}(\Gamma)$, $0 < v < 1$, $\alpha^2 + \beta^2 = 1$; α, β continuous

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20-118-6-2/43

On a Boundary Value Problem for Linear Elliptic Systems of
Differential Equations of First Order in the Plane

in the sense of Hölder.
Introducing complex variables $z = x + iy$, $w = u + iv$,

$\frac{\partial}{\partial z} = \frac{1}{2} \left(\frac{\partial}{\partial x} - i \frac{\partial}{\partial y} \right)$, $\frac{\partial}{\partial \bar{z}} = \frac{1}{2} \left(\frac{\partial}{\partial x} + i \frac{\partial}{\partial y} \right)$, then one

obtains

$$\frac{\partial w}{\partial \bar{z}} + M_1(z) \frac{\partial w}{\partial z} + M_2(z) \overline{\frac{\partial w}{\partial z}} + a(z)w(z) + b(z)\overline{w(z)} = g(z)$$

$$\operatorname{Re} \left\{ (\alpha - i\beta)w \right\} \Big|_{\Gamma} = 0,$$

where $|M_1(z)| + |M_2(z)| < q < 1$. The generalized solution
 $w(z) \in W_p^{(1)}(D)$, $p > 2$ is sought. Let $n = \frac{1}{2}\pi \left\{ \arg(\alpha + i\beta) \right\} \Big|_{\Gamma}$.

After the introduction of a new variable $w_1(z) = e^{ip(z)}w(z)$
the author obtains a final system (A). For this system it is
shown:

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On a Boundary Value Problem for Linear Elliptic Systems of 20-118-6-2/43
Differential Equations of First Order in the Plane

Theorem: For $n > 0$, (A) is always solvable and the corresponding homogeneous problem has $2n+1$ linearly independent solutions.
Theorem: For $n < 0$ the homogeneous problem has only the trivial solution.

For the solvability of the inhomogeneous system a certain necessary and sufficient condition has to be satisfied which results from the integral representation of $w(z)$ according to Vekua [Ref 8,9].
There are 15 references, 10 of which are Soviet.

ASSOCIATION: Matematicheskiy institut imeni V.A. Steklova Akademii nauk SSSR
(Mathematical Institute imeni V.A. Steklov, Academy of Sciences
USSR)

PRESENTED: September 5, 1957, by I.M. Vinogradov, Academician

SUBMITTED: September 4, 1957

Card 3/3

AUTHOR:

Vinogradov, V.S.

SOV/20-121-3-1/47

TITLE:

On the Boundedness of the Solutions of Boundary Value Problems
 for Linear Elliptic Systems of First Order in the Plane (Ob
 ogranichennosti resheniy krayevykh zadach dlya lineynykh ellip-
 ticheskikh sistem pervogo poryadka na ploskosti)

PERIODICAL:

Doklady Akademii nauk SSSR, 1958, Vol 121, Nr 3, pp 399-402 (USSR)

ABSTRACT:

The author considers the boundary value problem

$$(1) \frac{\partial w}{\partial \bar{z}} + \mu_1(z) \frac{\partial w}{\partial z} + \mu_2(z) \frac{\bar{\partial} w}{\partial z} + a_1(z)w + a_2(z)\bar{w} = g(z)$$

$$(2) \quad \operatorname{Re} \left\{ z^{-n} w(z) \right\} \mid_g = 0 ,$$

which was already formerly investigated by him [Ref 1], where

$$z = x+iy, \quad w = u+iv, \quad \frac{\partial}{\partial \bar{z}} = \frac{1}{2} \left(\frac{\partial}{\partial x} + i \frac{\partial}{\partial y} \right), \quad \frac{\partial}{\partial z} = \frac{1}{2} \left(\frac{\partial}{\partial x} - i \frac{\partial}{\partial y} \right)$$

and g is the periphery of the circle D ($|z| \leq 1$). The functions

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On the Boundedness of the Solutions of Boundary Value Problems for Linear Elliptic Systems of First Order in the Plane SOV/20-121-3-1/4 7

μ_1 and μ_2 are measurable in D and satisfy the ellipticity condition $|\mu_1(z)| + |\mu_2(z)| \leq \mu_0 < 1$. Furthermore $a_1(z)$, $a_2(z)$, $g(z)$ belong to $L_p(D)$, $p > 2$, and $\|a_1\|_{L_p}$, $\|a_2\|_{L_p}$, $\|g\|_{L_p}$ are $\leq K$.

It is proved that the solutions of (1)-(2) are bounded in $W_p^{(1)}(D)$, $p > 2$ with respect to the norm by a number which only depends on μ_0 and K . The proof is based on the reduction of (1)-(2) to an equivalent singular integral equation with the properties 1.) It is itself equivalent to an equation of Fredholm type, 2.) The corresponding homogeneous integral equation has vanishing solutions only. The reduction is carried out according to the method of the author [Ref 1].

There are 4 Soviet references.

ASSOCIATION: Matematicheskiy institut imeni V.A. Steklova Akademii nauk SSSR
(Mathematical Institute imeni V.A. Steklov of the Academy of Sciences of the USSR)

Card 2/3

On the Boundedness of the Solutions of Boundary Value Problems for Linear Elliptic Systems of First Order in the Plane SOV/20-121-3-1/47

PRESENTED: March 6, 1958, by I.M. Vinogradov, Academician

SUBMITTED: March 3, 1958

Card 3/3

AUTHOR: C. Vinogradov, V.S.

SOV/20-121-3-1 54

TITLE: On Some Boundary Value Problems for Quasi-Linear Elliptic Systems of First Order in the Plane (O nekotorykh krayevykh zadachakh dlya kvazilineynykh ellipticheskikh sistem pervogo poryadka na ploskosti)

PERIODICAL: Doklady Akademii nauk SSSR, 1958, Vol 121, Nr 4, pp 579-581 (USSR)

ABSTRACT: Let the system

$$\frac{\partial w}{\partial \bar{z}} + \mu_1(z, w) \frac{\partial w}{\partial z} + \mu_2(z, w) \frac{\partial \bar{w}}{\partial z} + d(z, w) = 0 \quad (!)$$

be given, where $z = x + iy$, $w = u + iv$, $\frac{\partial}{\partial \bar{z}} = \frac{1}{2} \left(\frac{\partial}{\partial x} - i \frac{\partial}{\partial y} \right)$,

$\frac{\partial}{\partial z} = \frac{1}{2} \left(\frac{\partial}{\partial x} + i \frac{\partial}{\partial y} \right)$. Furthermore let $|\mu_1(z, w)| + |\mu_2(z, w)| \leq \mu_0 < 1$, and let $\mu_i(z, w)$ be a measurable function of z for fixed w and satisfying the Lipschitz condition $|\mu_1(z, w_1) - \mu_1(z, w_2)| \leq K|w_1 - w_2|$, $d(z, w)$ is assumed to belong to the space $L_p(G)$ for fixed w , where G is the circle $|z| \leq 1$, and is

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On Some Boundary Value Problems for Quasi-Linear
Elliptic Systems of First Order in the Plane

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assumed to satisfy the condition $d(z, w) = d_0(z, w) + d_1(z, w)w +$
 $+ d_2(z, w)$, where $\|d_1(z, w)\|_{L_p} < K_1$ is uniformly continuous

in w and $d_1(z, w)$ is continuous in w for fixed z . Furthermore
let $p > 2$.

Two problems are formulated:

I. A function $w(z) \in W_p^{(1)}(G)$ which satisfies (1) and the
boundary condition $\operatorname{Re} \left\{ z^{-n} w(z) \right\}|_{\Gamma} = 0$, $\int z^{-k} w(z) ds = 0$
 $(k = 0, 1, \dots, 2n)$, $n \geq 0$.

II. A function $w(z) \in W_p^{(1)}(G)$ which satisfies (1) and
 $2|n|-1$ real constants $\lambda_0, \lambda_{\pm 1}, \dots, \lambda_{\pm |n|}$ are to be
found, so that on the boundary Γ of G it holds:

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On Some Boundary Value Problems for Quasi-Linear
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$$\operatorname{Re} \left\{ z^{-n} w(z) \right\} \Big|_{\Gamma} = \operatorname{Re} \left\{ \lambda_0 + \sum_{k=1}^{|n|-1} (\lambda_k + i \lambda_{-k}) z^k \right\} \Big|_{\Gamma} .$$

Here it is $n < 0$.
With similar methods used by the author [Ref 1,3] for linear
systems, (·) is transformed into an equivalent integral
equation which is non-linear and singular.
As the final result it is shown that the problems I and II
possess unique solutions.
There are 5 references, 3 of which are Soviet, and 2 German.

ASSOCIATION: Matematicheskiy institut imeni V.A. Steklova Akademii nauk
SSSR (Mathematical Institute imeni V.A. Steklov of the
Academy of Sciences of the USSR)

PRESENTED: March 6, 1958, by I.M. Vinogradov, Academician

Card 3/4

80036

S/020/60/132/01/03/064

16.3000

AUTHOR: Vinogradov, V.S.TITLE: Concerning a Method of Solution of the Poincaré Problem for
Analytic Functions

PERIODICAL: Doklady Akademii nauk SSSR, 1960, Vol. 132, No. 1, pp. 17-19

TEXT: The author seeks a function analytic in $|z| < 1$ which on the boundary Γ satisfies the condition

$$(1) \quad \operatorname{Re} \{ a(z)f'(z) + b(z)f(z) \} |_{\Gamma} = c(z),$$

where a, b, c satisfy the Hölder conditions with the exponent ν ($0 < \nu \leq 1$)
and $|a| \neq 0$ (compare I.N. Vekua (Ref. 1)). Let the index of (1) be

$n = \frac{1}{2\pi} \Delta [\arg a(t)]$. By a multiplication with a real function (1) changes to

$$(2) \quad \operatorname{Re} \{ z^n e^{p(z)} f'(z) + g(z)f(z) \} |_{\Gamma} = c_1(z),$$

where $p(z)$ is analytic in $|z| < 1$ and

$$(3) \quad \operatorname{im} p(z) |_{\Gamma} = \arg \frac{a(z)}{z^n}, \quad g(z) = b(z) e^{\operatorname{Re} p(z)}, \quad c_1(z) = c(z) e^{\operatorname{Re} p(z)}. \quad \checkmark$$

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S/020/60/132/01/03/064

Concerning a Method of Solution of the
Poincaré Problem for Analytic Functions

Under the assumption

$$(4) \quad \gamma(z) = \sum_{\mu=-m}^{\infty} \gamma_\mu e^{i\mu\varphi}, \quad \gamma_{-m} \neq 0$$

the problem is written in the form

$$(5) \quad \operatorname{Re} \left\{ \frac{z^k e^{p(z)} f'(z) + Q(z)f(z)}{z^l} \right\} = c_1(z)$$

where k , l and $Q(z)$ can be expressed by $m, n, \gamma(z)$, e.g. : $k = m + n$, $l = m$, $Q(z) = z^m \gamma(z)$ for $m \geq 0$ and $m \geq -n$. (5) is solved with respect to the analytic function $z^k e^{p(z)} f'(z) + Q(z)f(z)$ which leads to the equivalent differential equation :

$$(7) \quad z^k e^{p(z)} f'(z) + Q(z)f(z) = \frac{z^l}{2\pi} \int c_1(t) \frac{t+z}{t-z} ds + a_0 + a_1 z + \dots + a_1 z^l - \bar{a}_{l-1} z^{l+1} - \dots - \bar{a}_0 z^{2l}$$

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Concerning a Method of Solution of the
Poincaré Problem for Analytic Functions

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S/020/60/132/01/03/064

Now it is shown that 1) if $k = 0$, then (1) is always solvable, the homogeneous problem has a non-trivial solution depending on $2l + 3$ parameters ;
2) if $k > 1$, then (1) is solvable if a certain linear system of $2(k-1)$ equations with $2l + 1$ unknowns is solvable. In general the solutions are unstable with respect to the changes of $\gamma(z)$.

There are 2 references : 1 Soviet and 1 German.
ASSOCIATION: Matematicheskiy institut imeni V.A. Steklova Akademii nauk SSSR
(Mathematical Institute imeni V.A. Steklov AS USSR)

PRESENTED: December 31, 1959, by I.M. Vinogradov, Academician.

SUBMITTED: December 31, 1959

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VINOGRADOV, V.S.

New method for solving a boundary value problem for a linearized
system of Navier-Stokes equations in the case of two-dimensionality.
Dokl.AN SSSR 145 no.6:1202-1204 Ag '62. (MIRA 15:8)

1. Matematicheskiy institut im. V.A.Steklova AN SSSR. Predstavleno
akademikom I.M.Vinogradovym.
(Differential equations, Linear)

DELONE, B.N. (Moskva); VINOGRADOV, V.S., kand.fiz.-matem.nauk (Moskva);
KUDRYAVTSEV, L.D., doktor fiz.-matem.nauk (Moskva)

New contribution to mathematics. Priroda 52 no.10:55-56 '63.
(MIRA 16:12)

1. Chlen-korrespondent AN SSSR (for Delone).

ACCESSION NR: AP4010745

S/0020/64/154/001/0016/0019

AUTHOR: Vinogradov, V.S.

TITLE: One analogy of the Cauchy-Riemann system in a four dimensional space

SOURCE: AN SSSR. Doklady*, v. 154, no. 1, 1964, 16-19

TOPIC TAGS: Cauchy-Riemann system, four dimensional space, Liouville theorem, Cauchy integral, mathematical analysis, differential equation, Gauss equation

ABSTRACT: The system of differential equations

$$\frac{\partial u_1}{\partial x_1} - \frac{\partial u_2}{\partial x_3} - \frac{\partial u_3}{\partial x_4} - \frac{\partial u_4}{\partial x_1} = 0, \quad \frac{\partial u_1}{\partial x_2} + \frac{\partial u_4}{\partial x_3} + \frac{\partial u_3}{\partial x_1} - \frac{\partial u_4}{\partial x_2} = 0, \quad \frac{\partial u_1}{\partial x_4} - \frac{\partial u_2}{\partial x_3} + \frac{\partial u_3}{\partial x_2} + \frac{\partial u_4}{\partial x_1} = 0, \quad (1)$$

$\frac{\partial u_1}{\partial x_2} + \frac{\partial u_2}{\partial x_1} - \frac{\partial u_3}{\partial x_4} + \frac{\partial u_4}{\partial x_3} = 0,$
 where u_1, u_2, u_3 and u_4 are the real functions of four independent variables x_1, x_2, x_3 and x_4 , is examined. The system (1) is elliptical because the corresponding form

$$(2) \quad D(\xi_1, \xi_2, \xi_3, \xi_4) = \begin{vmatrix} \xi_1 - \xi_2 - \xi_3 - \xi_4 \\ \xi_2 & \xi_1 - \xi_4 & \xi_3 \\ \xi_3 & \xi_4 & \xi_1 - \xi_2 \\ \xi_4 & -\xi_2 & \xi_3 & \xi_1 \end{vmatrix} = (\xi_1^2 + \xi_2^2 + \xi_3^2 + \xi_4^2)$$

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ACCESSION NR: AP4010745

is strictly positive. System (1) can be written as
 $\partial_x U = \left(\frac{\partial}{\partial x_1} + i \frac{\partial}{\partial x_2} + j \frac{\partial}{\partial x_3} + k \frac{\partial}{\partial x_4} \right) (u_1 + iu_2 + ju_3 + ku_4) = 0. \quad (3)$

by means of quaternion notation. Solutions to system (3) are studied in some bounded domain D with a smooth boundary S which has a continually changing normal n at each point. The quaternion is denoted by $\alpha = \alpha_1 + i\alpha_2 + j\alpha_3 + k\alpha_4$. Its components are direction cosines of the normal $\alpha_i = \cos n \pm x_i$. The Gauss equation is written as

$$\iiint_D \partial_x U dv = \iint_S \alpha U ds. \quad (4)$$

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ACCESSION NR: AP4010745

where dv and ds are the volume and surface elements, respectively.
If $U(z)$ satisfies equation (3), then

$$U(z) = \frac{1}{2S_4} \int_S \left[\partial_z \frac{1}{r^2(x, z)} \right] \alpha U ds, \quad z \in D. \quad (5)$$

If Z does not belong to the domain D , then

$$0 = \frac{1}{2S_4} \int_S \left[\partial_z \frac{1}{r^2(x, z)} \right] \alpha U ds, \quad z \notin D. \quad (6)$$

If $U(z)$ satisfies equation (1), then for any sectionally smooth,
closed surface $S \int_S \alpha U ds = 0$. Orig. art. has: 20 equations.

ASSOCIATION: Matematicheskiy institut im V.A. Steklova Akademii
nauk SSSR (Institute of Mathematics, Academy of Sciences SSSR)

SUBMITTED: 01Jul63 DATE ACQ: 10Feb64 ENCL: 00

SUB CODE: MM NO REF Sov: 001 OTHER: 001

Card 3/3

VINOGRADEV, V.S.

135-7-3/16

SUBJECT: USSR/Welding

AUTHORS: Alov, A.A., Professor, Doctor of Technical Sciences, and
Vinogradov, V.S., Engineer.

TITLE: Improving the Quality of Weld Metal (Povysheniye kachestva metal-la svarnykh shvov).

PERIODICAL: "Svarochnoye Proizvodstvo", 1957, # 7, pp 9-10 (USSR)

ABSTRACT: The experiments were carried out with the purpose to verify experimentally the theory (1), that the process of weld metal crystallization and the size of grain can be controlled by controlling the forces which cause periodical displacement waves of metal in the welding puddle and which are created by the electro-magnetic forces in the arc, or by the gas streams.

The electrode holder on the welding head of the semi-automatic welder "РАШ-500" has been elongated and connected with an electric motor by a system of levers making the electrode oscillate across and alongside the seam (the arrangement is shown by a sketch) in a controlled amplitude of 0.5-1.5 mm. These oscillations caused corresponding displacements of the arc on the puddle surface, and hence additional movement of fluid metal.

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135-7-3/16

TITLE: Improving the Quality of Weld Metal (Povysheniye kachestva metalla svarnykh shvov).

The results of comparative tests of specimens welded with and without vibration revealed a 12 % increase of impact resistance in specimens welded with vibration. It is obvious that this figure is not the limit, and the optimum values of frequency and amplitude of oscillations are yet to be found. The method is applicable for various metals and various welding methodes.

Refined initial grain will have beneficial effect also on other properties of weld metal, e.g. - as revealed in preliminary investigation - on the distribution of non-metallic inclusions and the tendency to cracking.

The article contains 1 sketch and 2 bibliographic references (both Russian).

ASSOCIATION: Moskva Technological Aviation Institute (Moskovskiy aviatcionnyy Institut)

PRESENTED BY:

SUBMITTED:

AVAILABLE: At the Library of Congress.

Card 2/2

Brilliant

AUTHORS:

Alov, A.A., Doctor of Technical Sciences, Professor, and
Vinogradov, V.S., Engineer

SOV-135-58-9-7/20

TITLE:

The Effect of Electrode Vibrations on the Arc-Welding Process
and Properties of Weld Joints (Vliyaniye vibratsii elektro-
da na protsess dugovoy svarki i svoystva shvov)

PERIODICAL:

Svarochnoye proizvodstvo, 1958, Nr 9, pp 19-22 (USSR)

ABSTRACT:

Preliminary experimental investigations have proved that additional oscillations applied to crystallizing seam metal can improve its quality Ref. 3. Information is presented on tests carried out with vibrating electrodes on a special device (Fig. 1) for determining the effect of such oscillations on the welding process and properties of weld joints. Optimum parameters for electrode vibrations were determined (amplitude of the electrode tip osoillations up to 0.5 mm; frequency: 15 - 30 per second for steel; 30 - 50 per/sec. for aluminum). The tests permitted to make the following conclusions: 1) fine-drop passage of metal increases the stability of the burning arc, reduces the overheating of metal, improves the seam formation and facili-

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SOV-135-58-9-7/20

The Effect of Electrode Vibrations on the Arc-Welding Process and Properties of Weld Joints

tates welding of thin parts; 2) welding with vibrating electrodes entails finer and more uniform grain structure, improves mechanical properties of seams and reduces sensitivity to crack formation, porosity, etc; 3) Metal vibration is particularly effective in argon-arc, electric-slag welding and welding in CO₂. There are 8 graphs, 1 diagram, 4 tables, 3 sets of micro-photos and 6 references, 5 of which are Soviet and 1 English.

ASSOCIATION: Moskovskiy aviationsionnyy tekhnologicheskiy institut (The Moscow Technological Aviation Institute)

1. Arc welding--Processes
2. Welded joints--Properties
3. Electrodes--Vibration--Applications

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VINOGRADOV, V. S., Candidate Tech Sci (diss) -- "Investigation of the effect of electrode vibration on the process of arc welding and the properties of the seam metal". Moscow, 1959. 12 pp (Min Higher Educ USSR, Moscow Aviation Tech Inst), 150 copies (KL, № 24, 1959, 135)

L-49970-65 EPA(s)-2/17/71 by J. F. Gandy, Jr., D. E. Johnson, and R. L. Smith, U.S. Environmental Protection Agency, Washington, D.C.

ACCESSION NR: AP5002879

S = 135-65 2001/0036/0031

AUTHOR: Vinogradov, V. S. (Candidate of technical sciences); Potezharev, M. I.
(Student)

TITLE: Vacuum tight welding of armature windings

SOURCE: Svarochnoye proizvodstvo, no. 1, 1965, 30-31

TOPIC TAGS: welding, iron copper welding, weld inhomogeneity, weld joint diffusion, armco iron, copper welding

ABSTRACT: The main difficulties during the welding of iron to copper are due to the difference in physico-chemical properties of the two metals, the high heat conductivity of copper, and its ability to absorb gases severely. In order to study the problem more closely, the authors welded samples automatically using tungsten electrodes in argon. They uncovered certain non-uniformities in the weld-generated compound. Prolonged exposure to high temperatures (650°C) led to intensive diffusion which partly reduced the above-mentioned non-uniformities within the seam. Orig. art. has: 3 figures and 2 tables.

ASSOCIATION: MATI

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L 53988-65 EPA(s)-2/EWT(m)/EWA(d)/EWP(r)/EPR/T/EWP(t)/EWP(k)/EWP(b)/EWA(c)
Pf-4/Ps-4 IJP(c) R-HM/HW
APREGION NR. AP5015810

UR/0286/65/005/008/0042/0042
621.791.053.92

AUTHOR: Vinogradov, V. S.; Karen, A. B.; Bol'shakova, V. M.

36
B

TITLE: Method of spot, argon shielded-arc welding. Class 21, No. 170136

SOURCE: Byulleten' izobreteniy i tovarnykh znakov, no. 8, 1965, 42

TOPIC TAGS: welding, spot welding, argon shielded arc welding, aluminum welding,
aluminum alloy welding, arc welding

ABSTRACT: This Author Certificate introduces a method of spot, single-side, argon
shielded-arc welding of aluminum or aluminum-alloy thin-sheet parts performed by
thorough penetration of the bottom sheet. To carry out welding without special
supports, welding conditions are maintained so as to prevent the breakdown of the
oxide film on the bottom side of the lower sheet.
(NL)

ASSOCIATION: none

SUBMITTED: 06Apr63

ENCL: 00

SUB CODE: MM

NO REF SOV: 000
Card 1/1

OTHER: 000

ATTD PRTF: 4021

L 1853-66 EWT(1)/EWT(m)/EWA(d)/EWP(v)/T/EWP(t)/EWP(k)/EWP(z)/EWP(b)/EWA(c)
TJP(c) - MJW/JD/HM/HW

ACCESSION NR: AP5020160

UR/0135/65/000/008/0020/0022
621.791.856.3:669.715

AUTHOR: Vinogradov, V. S., (Candidate of technical sciences)

TITLE: Specific features of weld formation in argon shielded-arc spot welding of
AMg6 aluminum alloy

SOURCE: Svarochnoye proizvodstvo, no. 8, 1965, 20-22

TOPIC TAGS: welding, arc welding, spot welding, aluminum alloy, alloy welding,
plug welding/AMg6 alloy

ABSTRACT: The effect of various factors on weld formation in argon shielded-arc
spot (without an opening in the upper member) and plug (with an opening in the
upper member) welding of AMg6 aluminum alloy sheets 1.5-4 mm thick has been in-
vestigated. It was found that in spot welding the current, voltage, electrode
feed rate, arc duration, and electrode wire diameter are the most important factors.
An increase of current increases the depth of penetration and the weld size.
Prolonged arc burning increases the diameter but decreases the thickness of the
weld. An increase in electrode feed rate increases the penetration. Best results
in joining 1.5-4 mm sheets were obtained with electrode wire 1.6 mm in diameter.

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ACCESSION NR: AP5020160

The weld quality also depends upon the surface preparation and assembly of the members. Satisfactory quality welds can be obtained with a gap between members not exceeding 0.25 mm. The strength of individual welds varied between 350—760 kg depending upon the sheet thickness. The formation of plug welds depends on the same factors. The opening in the upper member facilitates the removal of oxide film and, as a result, facilitates the weld formation. The diameter of the opening depends upon the sheet thickness and varies between 6—7 mm for sheets 1.5 mm thick and 9—10 mm for sheets 2—3 mm thick. Orig. art. has: 4 figures and 3 tables.

3

(SD)

ASSOCIATION: MATI

44.57

SUBMITTED: 00

ENCL: 00

SUB CODE: MM, IE

NO REF Sov: 000

OTHER: 000

ATD PRESS: 4087

Card 2/2

L 08509-67 EWT(d)/EWT(m)/EWP(f)/EWP(c)/EWP(v)/EWP(j)/EWP(t)/EII/EWP(k)/EWP(h)/EWP(l)
ACC NR: AM6019454 IJP(c) RM/VN/HM/monograph UR/

Vinogradov, Vasiliy Sergeyevich

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64
ET

Technology of the production of welded and soldered structures (Tekhnologiya Proizvodstva svarnykh i payanykh konstruktsiy) Moscow, Izd-vo "Mashinostroyeniye", 66. 0201 p. illus., biblio. Errata slip inserted. 4,600 copies printed.

TOPIC TAGS: aircraft industry, aircraft material, high strength metal, titanium alloy, metal welding, metal soldering, plasma joining, ultrasonic welding, electron beam welding, welding equipment

PURPOSE AND COVERAGE: This book views the problems of efficient designing of welded and soldered joints in aircraft structures with calculation of the technological requirements. An outline is given of different methods of welding and soldering depending on the properties of a material and structural form of a joint. Special attention is given to new methods of welding, such as plasma, ultrasonic, electron beam and others. Assembly-welding apparatus, assembly jigs, instruments and special equipment are described. Methods of quality control of joints are also given. This book is recommended for technologists and designers in the aircraft industry and other branches of machine construction. It can also be of interest to teachers and students in advanced courses of aviation institutes and departments.

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UDC:621.791:629.13

L 08509-67

ACC NR: AM6019454

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SUB CODE: 11, 01 / SUEM DATE: 17Nov65 / ORIG REF: 049 / OTH REF: 004

Card 2/2 afs

VINOGRADOV, V.V.

Origin and functions of mast cells of the jellylike tissue of the umbilical cord in man. Dokl.AN SSSR 110 no.5:853-854 O '56.

(MIRA 10:1)

1. Novosibirskiy gosudarstvennyy meditsinskiy institut. Predstavлено
академиком Н.Н. Аничковым.
(UMBILICUS)

USSR / Human and Animal Morphology, Normal and Patho- S-3
logic -- Histochemistry

Abs Jour: Ref Zhur-Biol., No 13, 1958, 59800

Author : Vinogradov, V. V.; Cherenmykh, L. P.

Inst : Not given

Title : A Method for the Histochemical Detection of Acid
Mucopolysaccharides

Orig Pub: Byul. eksperim. biol. i meditsiny, 1957, 43, No 1,
124-125

Abstract: For more complete histochemical demonstration of
acid mucopolysaccharides, the authors have developed
a modification of Hall's method. The most im-
portant factor determining the success of the reac-
tion is the amount of the colloidal ferric acetate

Card 1/2

*Chair of Histology & Embryology, Novosibirsk
Med. Inst.*

USSR / Human and Animal Morphology, Normal and Patho- 3-3
logic -- Histochemistry

Abs Jour: Ref Zhur-Biol., No 13, 1958, 59806

reagent. Colloidal iron hydroxide is obtained by adding 0-12 milliliters of a solution of iron chloride in drops to 100 milliliters of boiling distilled water. The dialyzed iron hydroxide is mixed in a ratio of 3:1 or 2:1 with 2 N acetic acid. The authors have increased the time of the processing of the preparation with the ferric acetate reagent and the potassium ferrocyanide solution to 20 to 25 minutes. It is recommended that the ferric acetate reagent be washed out with a 2 N solution of acetic acid. A 1-4 percent solution of lead acetate (or a 0.5 percent solution of acetic acid) in 6 percent formalin should be used as the fixative instead of Carnoy's fluid.
--E. M. Popova

Card 2/2

6/
7

Card
VINOGRADOV, V. V.: Master Med Sci (diss) -- "The histogenesis of the gelatinous tissue of the human placenta in connection with the problem of the origin, distribution, and function of the acid mucopolysaccharides". Novosibirsk, 1958.
24 pp (Novosibirsk State Med Inst), 250 copies (KL, No 4, 1959, 130)

VINOGRADOV, V.V.

Origin, distribution, and function of acid mucopolysaccharides in
in jelly of Wharton in the human umbilical cord. [with summary
in English]. Biul.eksp.biol. i med. 45 no.5:111-114 My'58 (MIRA IL:6)

1. Iz kafedry gistolologii i embriologii (sav. - prof. M.Ya. Subbotin)
Novosibirskogo meditsinskogo instituta. Predstavlena deystvitel'nym
chlenom AMN SSSR V.N. Ternovskim.

(UMBILICAL CORD, metabolism
Wharton's jelly acid mucopolysaccharides (Rus))
(MUCOPOLYSACCHARIDES, metabolism
acid, in Wharton's jelly (Rus))

EXCERPTA MEDICA Sec 10 Vol 12/10 Obstetrics Oct 59

1679. THE CAPILLARIES OF WHARTON'S JELLY OF THE HUMAN UMBILICAL CORD (Russian text) - Vinogradov V. V. - AKUSH. I GINEK. 1959. 1
36-112 (63-65)

The author studied human umbilical cords of various terms of pregnancy - from 6-7 weeks up till the termination of gestation. In 6-7-week gestation active processes of haematopoiesis and formation of numerous capillaries, which later on became reduced, were observed. Some capillaries are preserved until the end of pregnancy. They are always situated in the immediate vicinity to the wall of umbilical arteries; they may be attributed to the type of adventitial vessels. Such vessels, which are preserved until the end of pregnancy, may be the origin of extensive haemorrhages into the tissue of Wharton's jelly, especially in complications of labour causing blood pressure increase in the umbilical arteries.

1. Iz kafedry gistolologii i embriologii (zav. - prof. M.Ya. Subbotin)
Novosibirskogo meditsinskogo instituta.

VINOGRADOV, V.V.; FUKS, B.B.

System for the differential histochemical analysis of mucopolysaccharides.
Izv. Sib. otd. AN SSSR no.9:168-170 '60. (MIRA 13:11)

1. Institut eksperimental'noy biologii i meditsiny. Novosibirskiy
meditsinskiy institut.
(Polysaccharides)

PRILENSKIY, Yu. F., assistant; VINOGRADOV, V. V., nauchnyy sotrudnik

Acrichine content and distribution in the brain in acrichine
"psychosis" in animals. Trudy Novosib. gos. med. inst. 37:
193-198 '61. (MIRA 15:6)

1. Laboratoriya gistolkhimii (zav. starshiy nauchnyy sotrudnik
B. B. Fuks) teoricheskogo otdela (zav. - prof. I. K. Yesipova)
instituta eksperimental'noy biologii i meditsiny Sibirskogo
otdeleniya AN SSSR (direktor prof. Ye. N. Meshalkin) (for Vinogradov).

(BRAIN) (QUINACRINE—TOXICOLOGY) (PSYCHOSES)

VINOGRADOV, V.V.; FUKS, B.B.

Differential histochemical determination of mucopolysaccharides.
Arkh. pat. 23 no.2:74-78 '61. (MIRA 14:2)
(POLYSACCHARIDES)

VINOGRADOV, V.V.; FRADKIN, S.Z.

"Hidden" metachromasia of some epithelial mucins. Izv. Sib. otd.
AN SSSR no. 11:151-153 '62. (MIRA 17:9)

1. Institut eksperimental'noy biologii i meditsiny Sibir'skogo
otdeleniya AN SSSR, Novosibirsk.

VINOGRADOV, V.V.; DONSKIKH, N.V.; SUBBOTIN, M.Ya.; CHEREMNYKH, L.P.

Comparative evaluation of the methods of histochemical detection of mucopolysaccharides in the tissues of provisory organs of man and mammals. Arkh. anat. i embr. 42 no.1:103-109 Ja '62.
(MIRA 15:4)

1. Kafedra gistologii (zav. - prof. M.Ya. Subbotin) Novosibirskogo meditsinskogo instituta. Adres avtorov: Novosibirsk, Krasnyy prosp., 58, Kafedra gistologii i embriologii Novosibirskogo gosudarstvennogo meditsinskogo instituta.

(POLYSACCHARIDES)

(CONNECTIVE TISSUES)

IVANOVA, L.N.; VINOGRADOV, V.V.

Histochemical characteristics of mucopolysaccharides of the interstitial tissue of the medullary substance of the kidneys.
Arkh. anat., gist. i embr. 43 no.11:18-23 N '62.

(MIRA 17:8)

1. Kafedra fiziologii (zav. - dotsent Ya.D. Finkinshteyn)
Novosibirskogo meditsinskogo instituta i laboratoriya gisto-
khimii (zav. - doktor med. nauk B.B. Fuks) teoreticheskogo
otdela (zav. - prof. I.K. Yesipova) Instituta eksperimental'-
noy biologii i meditsiny Sibirskogo otdeleniya AN SSSR.

VINOGRADOV, V.V. (Novosibirsk, 72, ul. Akademicheskaya 47A, 2);
POTAPOVA, V.B. (Novosibirsk 72, ul. Sportivnaya, 28V, kv. 38)

"Hidden metachromasia as a new method of histochemical detection
of sialomucins. Arkh. anat., gist. i embr. 47 no. 11:69-75 N '64.
(MIRA 19:1)

1. Laboratoriya gistokhimii (zav. - doktor med. nauk B.B. Fuks)
Instituta eksperimental'noy biologii i meditsiny Sibirskogo
otdeleniya AN SSSR, Novosibirsk. Submitted January 24, 1963.

SOV/137-57-10-18605

Translation from: Referativnyy zhurnal, Metallurgiya, 1957, Nr 10, p 19 (USSR)

AUTHOR: Vinogradov, V. V.

TITLE: The Functioning of Sintering Machines at Elevated Initial Mix Temperature (Rabota aglomeratsionnykh mashin pri povyshennoy nachal'noy temperaturе shikhty)

PERIODICAL: Tr. Nauchn-tekhn. o-va chernoy metallurgii, 1956, Vol 8,
pp 225-248

ABSTRACT: The sharp reduction in the permeability of the mix (M) to gas occurring in the initial period of the sintering process is essentially related to condensation of moisture in the zone of excess humidity. The starting temperature of the M is a factor affecting the mechanism of moisture removal and making it possible to regulate the sintering process. Experiments on a pilot-plant installation show that preheating (P) of the M to 60-75°C makes it possible to raise the output of a sintering machine by 30-80% (primarily in the sintering of fine concentrates) owing to improvement in permeability to gas. The sintering of such a M makes it possible to increase the moisture content thereof to a value corresponding to the best possible

Card 1/2

SOV/137-57-10-18605

The Functioning of Sintering Machines at Elevated Initial Mix Temperature

permeability to gas without ignition. The mechanisms of evaporation of the moisture of preheated and cold M differ. Evaporation of moisture in a cold M is due to the heat content of the gases, while in a heated M it is due to the heat content of the M itself. Hence, the rate of evaporation in the heated M is considerably higher. In the case of preheated M, all this leads to raising the temperature in the combustion zone, diminution of that zone, an increase in permeability to gas and intensification of the sintering process. P of the M makes it possible to cut the consumption of fuel for sintering by 0.5% on the average in terms of the absolute C content of the M. P of the M may be done economically by means of the sensible heat of the hot return. Hot return fines may be delivered atop the M layer on a rubber belt prior to mixing, or by a skip lift into the bin and then in the secondary mixer, or by means of a vibrating tubular conveyer or metallic conveyer belts.

F.K.

Card 2/2

VINOGRADOV, V.V.

Improve the preparation of breeze. Metallurg 4 no.3:3-4 Mr '59.
(MIRA 12:4)

1. Glavnnyy inzhener Mundybashskoy aglofabriki.
(Coke)

"APPROVED FOR RELEASE: 09/01/2001

CIA-RDP86-00513R001859920013-3

VINOGRADOV, V.V.

Economy of fuel and quality of the sinter. Metallurg 5 no.7:5-7
Jl '60. (MIRA 13:?)

1. Glavnnyy inzhener Mundybashakoy aglofabriki.
(Sintering)

APPROVED FOR RELEASE: 09/01/2001

CIA-RDP86-00513R001859920013-3"

VINOGRADOV, V.V.

Measuring the intensity of wind head and eliminating its effect
on the functioning of gas appliances. Sbor. nauch. rab. AMKH
no.9:106-116 '61. (MIRA 16:1)
(Wind pressure) (Gas appliances)

Vinogradov, V.V.

SUBJECT: USSR/Luminescence

48-3-24/26

AUTHORS: Pasynkov R.Ye and Vinogradov V.V.

TITLE: Stabilized Piezoceramic Materials (Stabilizovannyye
p'yezokeramicheskiye materialy)

PERIODICAL: Izvestiya Akademii Nauk SSSR, Seriya fizicheskaya, 1957, Vol 21,
#3, pp 450-454 (USSR)

ABSTRACT: One of the most important applications of ferroelectrics in
technology is their use for manufacturing various electroac-
oustic transformers.

However, a number of essential problems connected with peculiari-
ties of piezoceramic materials as ferroelectrics were not
clear enough.

In order to solve some of these problems, an investigation of
the properties of barium titanate and some of its solid so-
lutions was performed. Conclusions drawn from this investiga-
tion are as follows:

1. BaTiO₃ possesses a considerable non-stability of elec-
troacoustic parameters in the range from -40 to +40°C;

Card 1/3

48-3-24/26

TITLE: Stabilized Piezoceramic Materials (Stabilizovannyye
p'yezokeramicheskiye materialy)

2. From the viewpoint of stabilization, "triple" systems (i.e. containing calcium titanate and lead titanate) are the best ones; moreover, they are more sensitive in comparison with BaTiO₃. This makes them suitable for manufacturing electroacoustic receivers. However, specific acoustic capacities with them are considerably lower than with BaTiO₃, and this makes them unsuitable for application as emitters;

3. A compound containing 6 % of CaTiO₃ can be recommended as a material for both receivers and emitters, because it ensures a high stability and reduces the specific acoustic capacity by only twice;

4. Compounds with barium stannate and strontium titanate, which possess high values of dielectric permittivity but insufficient stability and high hysteresis losses, are not to be recommended for applications in electroacoustics.

The article contains 4 figures and 2 tables. The bibliography lists one non-Slavic reference.

Card 2/3

48-3-24/26

TITLE: Stabilized Piezoceramic Materials (Stabilizovannye
p'yezokeramicheskiye materialy)

INSTITUTION: Institute of Semiconductors of the USSR Academy of Sciences

PRESENTED BY:

SUBMITTED: No date indicated

AVAILABLE: At the Library of Congress.

Card 3/3

VINOGRADOV, V.V.

Calibration curve of the VOM-50 type recording wave meter. Meteor.
i gidrol. no.9:42 S '57. (MLRA 10:9)
(Meteorological instruments)

VINOGRADOV, V.V.

Methodology of calculating precipitation in observations on
evaporation from farm fields. Trudy GGI no.92:91-103 '64.
(MIK: 17:11)

L 23468-65 EWT(1)/T/EED(b)-3 Pae-2 IJP(c) GW

ACCESSION NR: AP4047252

S/0213/64/004/005/0896/0899

AUTHOR: Vinogradov, V. V.

TITLE: A marine stereoscopic camera

SOURCE: Okeanologiya, v. 4, no. 5, 1964, 896-899

TOPIC TAGS: marine stereophotography, wide angle camera, photogrammetry /
MSA 1 stereoscopic camera, AFA 37 camera, AFA 39 camera

ABSTRACT: This paper describes the design of a new Soviet device for stereoscopic photography of ocean waves. The device, designed for obtaining stereopairs and for taking a sequential strip of pictures, incorporates a pair of AFA-37 or AFA-39 cameras. The frontal length of the device is 1.5 m. The operating time of a single camera is one cycle, which is 1.9 seconds. The cameras are arranged in a special sealed container, which includes a protective glass cover (rotating at the rate of 1000 rpm) to eliminate splash. Attached to the top of the container are an optical range-finder, a level, and a special aid for setting up a mechanical sight. The characteristic features and parameters of the two AFA camera units and of the combined aggregate are tabulated.

Card 1/2

L 23468-65

ACCESSION NR: AP4047252

The data include types of lenses, focal lengths, film size and capacity, angle of view, type of shutter, and other pertinent facts. The camera arrangement was used on two spring-summer excursions into the North Atlantic in 1960-61. Results were encouraging, but the author points out some defects. A poor exposure meter is the chief defect, and it is suggested that a better one be used. Another disadvantage is the lack of a built-in flash unit. It is recommended that the camera be modified to include a built-in flash unit. The author also suggests that the camera be modified to include a built-in timer. The article has: 1 figure and 1 table.

ASSOCIATION: Leningradskoye otdeleniye Gosudarstvennogo okeanograficheskogo instituta Central Department of the State Oceanographic Institute

SUBMITTED: 23Feb62

ENCL: 00

SUB CODE: ES

NO REF SOV: 000

OTHER: 000

Card 2/2

VINOGRADOV, V. V.

Use of blood plasma in shock. Khirurgiia, Moskva no. 7:26-35
July 1950. (CLML 20:1)

1. Of the Central Order of Lenin Institute of Hematology and
Blood Transfusion of the Academy of Medical Sciences USSR
(Director -- Prof. A. A. Bagdasarov, Corresponding Member
of the Academy of Medical Sciences USSR).

BAKULEV, A. N. (Prof.); VINOGRADOV, V. V.

Pancreas - Surgery

Clinical aspect and surgical therapy of pancreatic cyst. Khirurgia No. 2, 1952.

9. Monthly List of Russian Accessions, Library of Congress, August 1952. Unclassified.
2

VINOGRADOV, V.V., kandidat meditsinskikh nauk.

Traumatic injuries of the pancreas. Khirurgia no.1:164-170 Ja '54.
(MIRA 7:5)

1. Iz fakul'tetskoy khirurgicheskoy kliniki im. S.I.Spasokukotskogo
(zaveduyushchiy - professor A.N.Bakulev) II Moskovskogo meditsinskogo
instituta im. I.V.Stalina. (Pancreas--Wounds and injuries)

VINOGRADOV, V.V.; GORNAK, K.A.

Insular hypoglycemas; tumors of the islands of Langerhans.
Terap.arkh. 26 no.4:81-88 Jl-Ag '54. (MLRA 7:11)

I. Iz fakul'tetskoy khirurgicheskoy kliniki imeni akad. S.I.Spasokukotskogo (dir. deystvitel'nyy chlen AMN SSSR prof. A.N.Bakulev)
II Moskovskogo meditsinskogo instituta imeni I.V.Stalina i patologoanatomiceskogo otdeleniya 1-y gradskoy bol'nitsy imeni N.I.Pirogova.

(ISLANDS OF LANGERHANS, neoplasms,
causing hypoglycemia)

(HYPOGLYCEMIA, etiology and pathogenesis,
islands of Langerhans tumors)

VINOGRADOV, V.V. (Moskva, ul. Burdenko, 11, kv. 7); RYMEYSKIY, S.V.

Loss of blood in intrathoracic surgery and procedure during its therapy. Vest. khir. 74 no.5:45-49 Jl-Ag '54. (MIRA 7:10)

1. Iz fakul'tetskoy khirurgicheskoy kliniki im. akad. S.I.Spasko-kukotskogo (zav. prof. A.N.Bakulev) 2-go Moskovskogo meditsinskogo instituta im. I.V.Stalina.

(THORAX, surgery,
compl., blood loss, management)

(HEMORRHAGE,
thorax, peroperative, managment)

VINOGRADOV, V.V.; GALUSHKO, Yu, A.

Ligation of the hepatic artery as a means of treating portal hypertension. Khirurgija, Moskva no.5:61-65 My. '55. (MLRA 8:9)

1. Iz fakul'tetskoy khirurgicheskoy kliniki imeni S.I. Spasokukotskogo (dir.-prof. A.N. Bakulev) II Moskovskogo meditsinskogo instituta imeni I.V. Stalina
(ARTERIES, HEPATIC, surg.)

ligation, in therapy of portal hypertension)

(HYPERTENSION,
portal, surg., ligation of portal hepatic artery)

VINOGRADOV, V.V., professor, (Moskva)

Prognosis in myocardial infarction. Terap. arkh. 27 no.7:3-15 '55.
(MIRA 9:1)

1. Deystvitel'nyy chlen AMN SSSR.
(MYOCARDIAL INFARCT,
progn.)

VINOGRADOV, V. V. Doc Med Sci -- (diss) "Tumors of the pancreas, and their
surgical treatment." Mcs, 1957. 24 pp 20 cm. (2nd Mos State Med Inst im I. V.
Stalin), 120 copies
(KL, 7-57, 108)

57

VINOGRADOV, V.V.; BUYANOV, V.M.

Roentgenomanometric examination during biliary tract surgery as a diagnostic method [with summary in English]. Ekspер.khir. 2 no.3: 8-13 My-Je '57.
(MIRA 10:10)

1. Iz fakul'tetskoy khirurgicheskoy kliniki imeni S.I.Spasokukotskogo
(dir. - prof. A.N.Bakulev) II Moskovskogo meditsinskogo instituta
imeni I.V.Stalina.
(BILIARY TRACT, surg.
roentgenomanometry in)
(ROENTGENOGRAPHY
roentgenomanometry during biliary tract surg.)

VINOGRADOV, V.V.; VARNOVITSKIY, G.I. (Moskva)

Roentgenodiagnostics of cancer of the pancreas. Klin.med. 35 no.4:
38-42 Ap '57. (MIRA 10:8)

1. Iz fakul'tetskoy khirurgicheskoy kliniki lechebnogo fakul'teta
(dir. - prof. A.N.Bakulev) i gospital'noy khirurgicheskoy kliniki
pediatriceskogo fakul'teta (dir. - prof. A.V.Gulyayev) II MOskovsko-
go meditsinskogo instituta imeni I.V.Stalina.
(PANCREAS, neoplasma
diag., x-ray)

EXCERPTA MEDICA Sec 9 Vol 13/2 Surgery Feb 59

1236. DIAGNOSTIC ROENTGENMANOMETRY IN GALLBLADDER SURGERY
(Russian text) - Vinogradov V.V. and Buyanov V.M. - EKSPER. KHIR,
1957, 157/3 (8-13) Graphs 5 Tables 1 Illus. 3

Seventy-five patients were studied by cholangiography, 45 by cholangiomanometry, and in 22 cases both methods were used. Analysis of these data makes possible a detailed description of the changes in the biliary passages as observed during surgery for cholecystitis, obstructive jaundice and dyskinesias. The method described aids in arriving at the exact diagnosis and in selecting the appropriate surgical treatment.

(IX,14*)

VINOGRADOV, V.V. (Moskva, G-17, ul. Burdenko, d.11, kv.7); VARNOVITSKIY, G.I.

Detecting cysts of the pancreas. Nov.khir.arkh. no.3:32-36 My-Je '58

1. Kafedra fakul'tetskoy khirurgii (zav. - prof. A.N. Bakulev) lechebno-
go fakul'teta i kafedra gospital'noy khirurgii (zav. - prof. A.V.
Gulyaev) pediatriceskogo fakul'teta 2-go Moskovskogo meditsinskogo
instituta.

(PANCREAS--TUMORS)

(CYSTS)

VINOGRADOV, V.V.; VELICHKINA, S.N.

Blood transfusions in severe injuries. Probl. gemit. i perel. krovi
3 no.5:35-38 S-0 '58. (MIRA 11:11)

1. Iz fakul'tetskoy khirurgicheskoy kliniki imeni akad. S.I. Spasokukot-
skogo (dir. - deyastvitel'nyy chlen AMN SSSR prof. A.N. Bakulev) II
Moskovskogo meditsinskogo instituta imeni N.I. Pirogova.

(BLOOD TRANSFUSIONS, in various diseases
severe inj. & shock (Rus))

(WOUNDS AND INJURIES, therapy
blood transfusions in severe inj. (Rus))

(SHOCK, therapy
blood transfusions in severe inj. (Rus))

VINOGRADOV, V.V., GALUSHKO, Yu.A.

Surgical treatment of mitral insufficiency: a survey. Vest.khir.
81 no.7:106-118 Jl '58 (MIRA 11:8)

1. Iz Instituta grudnoy khirurgii AMN SSSR (dir. - prof. A.N. Bakulev)
i fakul'tetstkoy khirurgicheskoy kliniki im. S.I. Spasokukotskogo
(zav. - prof. A.N. Bakulev) 2-go Moskovskogo meditsinskogo instituta
im. N.I. Pirogova. Adres avtorov: Moskva, Bol'shaya Kaluzhskaya ul.,
d.8. Institut grudnoy khirurgii AMN SSSR.

(MITRAL VALVE, dis.
insuff., surg., review (Rus))

LEVIN, Mikhail Ivanovich; VINOGRADOV, L.V., red.; SENCHILO, K.K.,
tekhn.red.

[Transportation of sick and injured persons; manual for
subprofessional medical personnel] Transportirovka
bol'nykh i postradavshikh ot travmy; posobie dlja srednego
meditsinskogo personala. Moskva, Gos.izd-vo med.lit-ry,
1959. 95 p. (MIRA 13:1)
(TRANSPORT OF SICK AND WOUNDED)

VARNOVITSKIY, G.I. (Moskva, Zh-4, Pestovskiy per., d 9, kv. 21); VINOGRADOV,
V.V.

X-ray manifestations of acute pancreatitis. Vest. rent. i rad. 34
no.1:29-33 Ja-F '59. (MIRA 12:3)

1. Iz fakul'tetskoy khiruricheskoy kliniki lechebnogo fakul'teta
(dir. - prof. A.N. Bakulev) i gospital'noy khirurgicheskoy kliniki
pediatricheskogo fakul'teta (dir. - prof. A.V. Gulyayev) II Moskovskogo
meditsinskogo instituta imeni N. I. Pirogova.
(PANCREATITIS, manifest.
acute, x-ray manifest. (Rus))

Vinogradov, V.V.

- ANDREEV, V. Ya.** - "The nucleic acids of the nerve cells of the brain and spinal cord".
ANDREEV, V. Ya. and SUDARSKAYA, N. V. - "Histochemical characteristics of connective tissue in pathological conditions".
ANDREEV, V. Ya. - "Some aspects of carbohydrate metabolism of the transitional epithelium".
ANDREEV, G. B. - "The studies on the cell-mitogenesis with the aid of panel fractionation procedures".
ANDREEV, V. A., NEFEDOV, M. N., RUMYANTSEV, V. N., SHCHERBET, I. Ya. and CHUPRIKOV, A. V. - "Universal fluorescence microscopy as a new tool of histochemistry".
ANDREEVA, O. D. - "Histochemical characteristics of diphenyl-polymerase".
ANDREEV, I. B. - "The determination of sulphhydryl groups in proteins by means of the inhibitor "iodoacetamide" (iodoacetic acid) and "thiocetonic acid" method".
ANDREEV, I. B. - "Proteins and sulphuric acid in the synthesis of cellular proteins".
ANDREEV, G. V. - "The evolution of the proteoglycan-carbohydrate composition of cartilaginous connective tissue in the development of rheumatic processes".
ANDREEV, A. L. - "Histochemical contribution to the study of the mucopolysaccharide-hyaluronan controlling the chemical activity of the nerve structures".
ANDREEV, V. V. - "Some methods controlling the synthesis of the enzymes included in the composition of the Congress and is included in Group 1".
 Aspects of histochemistry and the nervous system (as a proposed report of which the author's title is not yet known). It is listed by several sub-journal under Group III.
ANDREEV, V. V. - "Histochemistry in experimental cancer chemotherapy".
BORODIN, O. I. - "Comparative histochemistry of various differing in their function".
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STRUCHKOV, Viktor Ivanovich, prof.; BAZHENOVA, A.P., doktor med. nauk;
TUMANSKIY, V.K., doktor med. nauk; GRIGORYAN, A.V., kand.med.
nauk; KACHKOV, A.P., kand.med.nauk; MARSHAK, A.M., kand.med.nauk;
MURAV'YEV, M.V., kand.med.nauk; SIDORINA, F.I., kand.med.nauk;
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VINOGRADOV, V. V.

Operative pancreatography

Program for Medical Society of J. E. Purkyne, Czech.
Radiology Congress, Karlovy Vary, Czech. 10-15 June '63

VISHNEVSKIY, A. A.; MAZAYEV, P. N.; VINOGRADOV, V. V.; KULIYEVA, Kh. D.

Catheterisation and angiography of the main branches of the a. coelicae

Program for Medical Society of J. E. Purkyne, Czech.
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VINOGRADOV, V.V.; GRISHKEVICH, E.V.

Diagnostic significance of operative cholangiography and roentgenometric study of the biliary tract. Kaz. med. zhur. no.5:19-22 S-0'63
(MIRA 16:12)

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VINOGRADOV, V.V.; GRISHKEVICH, E.V. (Moskva)

Surgical formation of a double hepatocholangiojejunostomosis
in tumors of the ostium of the hepatic ducts with a separation
of the bile ducts of the right and left lobes. Eksper. khir. i
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Operative pancreatography. Vest. khir. 90 no.5:30-35 May 63
(MIRA 17:5)

1. Iz Inst'tuta khirurgii imeni A.V. Vishnevskogo (dir. - prof. A.A. Vishhevskiy) AMN SSSR i Tsentral'noy bol'nitsy (glavnyy vrach - N.I. Yermolayev) Ministerstva zdravookhraneniya RSFSR.

KULIYEVA, Kh.D. (Moskva, 1-y Baltiyskiy pereulok 2/25, komnata 231); MAZAYEV,
P.N.; VINOGRADOV, V.V.; VOLYNSKIY, Yu.D.

Selective intravital splenic angiography. Vest. khir. 92 no.3:64-66
(MIRA 17:12)
Mr '64.

1. Iz Instituta khirurgii imeni A.V.Vishnevskogo (dir. - prof. A.A.
Vishnevskiy) AMN SSSR.

L 29920-66 EWP(k)/EWT(m)/T/EWP(w)/EWP(t)/ETI IJP(c) DJ/JD/HW/JG
ACC NR: AP6017300 (A, N) SOURCE CODE: UR/0136/66/000/005/0093/0094
(4)

AUTHOR: Krupin, A. V.; Pavlov, I. M.; Linetskiy, B. L.; Chernyshev, V. N.;
Zarapin, Yu. L.; Starkov, V. N.; Korchagin, P. A.; Vinogradov, V. V.; Tyukalov, T. V.
B
56

ORG: none

TITLE: Rolling of tungsten and molybdenum under conditions of low partial pressures
of oxygen

SOURCE: Tsvetnye metally, no. 5, 1966, 93-94

TOPIC TAGS: tungsten, molybdenum, hot rolling, tungsten rolling, molybdenum rolling,
vacuum rolling

ABSTRACT: Tungsten and molybdenum plates (8 x 40 x 150 mm) preforged or prerolled
from sintered ingots were hot rolled in air, argon containing 0.03% O₂ and 0.01% N₂,
or in a vacuum of 0.1—0.005 mm Hg. Tungsten was rolled at 1200, 1300, and 1450°C
with reductions of 10, 20, and 30% per pass; molybdenum was rolled at 950, 1050, and
1150°C with reductions of 10, 20, 30, 50, and 55% per pass. A sharp increase in the
roll pressure, torque, forward slip, and friction coefficient was observed with
change from air atmosphere to a pressure of 0.1 mm Hg. This was caused by increased
friction. Lowering the pressure from 0.1 to 0.005 mm Hg had little or no
additional effect. Increasing the rolling temperature in vacuum of 0.01 mm Hg had an
insignificant effect on the specific pressure in rolling molybdenum, but appreciably

Cord 1/2

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decreased the specific pressure in rolling tungsten, e.g., from 74 at 1200C to 64 and 60 kg/mm² at 1300 and 1450C, respectively. The specific pressure increased with increasing reduction. In rolling tungsten in a vacuum of 0.1 mm Hg, increasing the reduction from 20 to 30% led to a specific pressure increase from 74 to 91 kg/mm² at 1200C and from 60 to 69 kg/mm² at 1450C. In rolling molybdenum the specific pressure increased from 44 to 96.5 kg/mm² with increasing reduction from 10 to 45% at 1050C. In vacuum rolling at high temperatures and reductions a sticking of metal to the rolls was observed. In rolling of tungsten at 1450C with a reduction of 35%, an intensive sticking resulted in splitting of metal. Little or no sticking was observed at 1200C. Noticeable sticking was observed in rolling molybdenum at 1150C. (MS)

SUB CODE: 11,13 / SUBM DATE: none / ORIG REP: 001 / ATD PRESS: 5011

Card 2/2 (1c)

KULIYEVA, Kh.D.; VINOGRADOV, V.V.; SARKISOV, D.S.; VOLYNSKIY, Yu.D.

Posttraumatic thrombosis of the portal vein with the development of cirrhosis and hepatoma of the liver. Azerb. med. zhur. 41 no.8;69-72 Ag '64. (MIRA 18:11)

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stvitel'nyy chlen AMN SSSR prof. A.A. Vishnev'skiy) AMN SSSR,
Moskva.

VINOGRADOV, V.S., kand. tekhn. nauk

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1. Moskovskiy aviationsionnyy tekhnologicheskiy institut.

SIMANOV, V.G., kand. tekhn. nauch.; SUDOROV, B.I., inzh., ~~VINOGRADOV, V.S.~~,
inzh.; KRIVOSHCHEKOV, Iu.V., inzh.; KRAVTSOV, A.M., inzh.; KUZHELI',
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1. Sverdlov'skiy gornyy institut imeni Vakhrusheva (for Simanov,
Sudorov). 2. Nauchnoissledovatel'skiy i proektno-tekhnicheskii
institut gornogo i obogatitel'nogo oborudovaniya (for Vinogradov,
Krivoshchekov). 3. Ruinik Perveuralskogo dinasovogo zavoda (for
Kravtsov, Kuzhel'). Rekomendovana Kafedroy shakhtnogo stroitel'-
stva Sverdlovskogo gornogo Instituta.

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CIA-RDP86-00513R001859920013-3

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Eksper. khir. i anest. 9 no.4:6-9 Jl-Ag '64.
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VINCCRADOV, V.V., doktor med.nauk: GRISHKEVICH, E.V., kandidat nauk

Roentgenomansetric examination of the biliary tract. Vest. Akad. Med. Nauk.
93 no.12:19-24 D '64. (MIRA 18:5)

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Peroperative pancreatography. Cesk. radicol. 19 no.2:98-100
Mr'65.

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FUKS, B.B. (Novosibirsk); VINOGRADOV, V.V. (Novosibirsk); SHISHKIN, G.S. (Novosibirsk); MAMSIMOVSKIY, L.P. (Novosibirsk)

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VINOGRADOV, V.V.

The marine stereophotographic apparatus M A-1. Okeanologija 4
no. 51896-899 '64 (MIRA 18:1)

1. Leningradskoye otdeleniye Gosudarstvennogo okeanograficheskogo instituta.

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